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 IBM Technical Disclosure Bulletins

**Term:**

L4 and (acknowledg\$ or receipt\$)

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DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L5</u>	L4 and (acknowledg\$ or receipt\$)	28	<u>L5</u>
<u>L4</u>	L3 and (host or server)	49	<u>L4</u>
<u>L3</u>	I1 and L2	61	<u>L3</u>
<u>L2</u>	determin\$ near3 (updat\$ or modif\$) near5 object\$	653	<u>L2</u>
<u>L1</u>	(updat\$ or modif\$) near5 object\$ near5 table\$	877	<u>L1</u>

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Terms	Documents
I3 not I5	33

**Database:**

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L7

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**Hit Count   Set Name**  
 result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L7</u>	I3 not I5	33	<u>L7</u>
<u>L6</u>	I4 not I5	21	<u>L6</u>
<u>L5</u>	L4 and (acknowledg\$ or receipt\$)	28	<u>L5</u>
<u>L4</u>	L3 and (host or server)	49	<u>L4</u>
<u>L3</u>	I1 and L2	61	<u>L3</u>
<u>L2</u>	determin\$ near3 (updat\$ or modif\$) near5 object\$	653	<u>L2</u>
<u>L1</u>	(updat\$ or modif\$) near5 object\$ near5 table\$	877	<u>L1</u>

END OF SEARCH HISTORY

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 20 of 28 returned.**☐ 1. Document ID: US 20030204517 A1

L5: Entry 1 of 28

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204517

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030204517 A1

TITLE: Method and apparatus of performing active update notification

PUBLICATION-DATE: October 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Skinner, Brian	Mountain View	CA	US	
Turk, Andy Kittridge	Brooklyn	NY	US	
McDonnell, Kevin	Union City	CA	US	
McDonnell, Vanessa	Union City	CA	US	

US-CL-CURRENT: 707/100

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">RIMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ 2. Document ID: US 20030105654 A1

L5: Entry 2 of 28

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030105654

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030105654 A1

TITLE: Workflow management based on an integrated view of resource identity

PUBLICATION-DATE: June 5, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
MacLeod, Stewart P.	Woodinville	WA	US	
Cameron, Kim	Bellevue	WA	US	
Booth, James H.	Issaquah	WA	US	
Fischer, Jonathan A.	Carnation	WA	US	

US-CL-CURRENT: 705/7; 709/100, 709/201

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 20030061279 A1

L5: Entry 3 of 28

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061279

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061279 A1

TITLE: Application serving apparatus and method

PUBLICATION-DATE: March 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Llewellyn, Scot	Orem	UT	US	
Watt, Paul	Salt Lake City	UT	US	
Ivie, Joseph	American Fork	UT	US	
Schultz, Doug	Cedar Hills	UT	US	
Stevens, Shawn	Alpine	UT	US	
Carlson, Ryan	Riverton	UT	US	

US-CL-CURRENT: 709/203; 709/211

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 20020129175 A1

L5: Entry 4 of 28

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020129175

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020129175 A1

TITLE: System and method for providing collaborative replicated objects for synchronous distributed groupware applications

PUBLICATION-DATE: September 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Banavar, Guruduth Somasekhara	Yorktown Heights	NY	US	
Miller, Kevan Lee	Danbury	CT	US	
Prakash, Atul	Ann Arbor	MI	US	
Strom, Robert Evan	Ridgefield	CT	US	
Ward, Michael James	New Haven	CT	US	

US-CL-CURRENT: 709/310

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 5. Document ID: US 20020073082 A1

L5: Entry 5 of 28

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020073082

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020073082 A1

TITLE: System modification processing technique implemented on an information storage and retrieval system

PUBLICATION-DATE: June 13, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Duvillier, Edouard	Mountain View	CA	US	
Cabannes, Didier	Burlingame	CA	US	

US-CL-CURRENT: 707/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 6. Document ID: US 20020065827 A1

L5: Entry 6 of 28

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020065827

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020065827 A1

TITLE: Method and apparatus for workgroup information replication

PUBLICATION-DATE: May 30, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Christie, David	Menlo Park	CA	US	
Winner, Jeffrey	Santa Clara	CA	US	

US-CL-CURRENT: 707/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 7. Document ID: US 20020015039 A1

L5: Entry 7 of 28

File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020015039

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020015039 A1

TITLE: Rendering graphic object based images

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Moore, Kevin John	North Ryde		AU	

US-CL-CURRENT: 345/421; 345/629

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 8. Document ID: US 6591275 B1

L5: Entry 8 of 28

File: USPT

Jul 8, 2003

US-PAT-NO: 6591275

DOCUMENT-IDENTIFIER: US 6591275 B1

TITLE: Object-relational mapping for tables without primary keys

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Russell; Craig L.	Mountain View	CA		
Vatkina; Marina V.	Mountain View	CA		
Watzek; Michael E.	Berlin			DE

US-CL-CURRENT: 707/103R; 707/103Y

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 6501950 B1

L5: Entry 9 of 28

File: USPT

Dec 31, 2002

US-PAT-NO: 6501950

DOCUMENT-IDENTIFIER: US 6501950 B1

TITLE: Systems and methods for monitoring data signals on a communications network

DATE-ISSUED: December 31, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Thomas C.	Roswell	GA		
Morton; John W.	Cumming	GA		
Seymour; Jefferey T.	Douglasville	GA		
Visser; Gregory S.	Dunwoody	GA		
Henseler; David L.	Norcross	GA		

US-CL-CURRENT: 455/423; 455/412.1, 455/514

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 6425016 B1

L5: Entry 10 of 28

File: USPT

Jul 23, 2002

US-PAT-NO: 6425016

DOCUMENT-IDENTIFIER: US 6425016 B1

TITLE: System and method for providing collaborative replicated objects for synchronous distributed groupware applications

DATE-ISSUED: July 23, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Banavar; Guruduth Somasekhara	Yorktown Heights	NY		
Miller; Kevan Lee	Danbury	CT		
Prakash; Atul	Ann Arbor	MI		
Strom; Robert Evan	Ridgefield	CT		
Ward; Michael James	New Haven	CT		

US-CL-CURRENT: 709/310; 345/751

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 11. Document ID: US 6368177 B1

L5: Entry 11 of 28

File: USPT

Apr 9, 2002

US-PAT-NO: 6368177

DOCUMENT-IDENTIFIER: US 6368177 B1

TITLE: Method for using a toy to conduct sales over a network

DATE-ISSUED: April 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gabai; Oz	Tel Aviv			IL
Gabai; Jacob	Tel Aviv			IL
Sandlerman; Nimrod	Ramat Gan			IL

US-CL-CURRENT: 446/404; 446/298, 446/397, 705/10, 705/26, 705/41, 705/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 12. Document ID: US 6324587 B1

L5: Entry 12 of 28

File: USPT

Nov 27, 2001

US-PAT-NO: 6324587

DOCUMENT-IDENTIFIER: US 6324587 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Method, computer program product, and data structure for publishing a data object over a store and forward transport

DATE-ISSUED: November 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Trenbeath; Brian	Redmond	WA		
Krishnan; Vilayanur Parameswaran	Tucson	AZ		
Bliss; William J.	Medina	WA		
Sutjahjo; Siunie Aquawati	Tucson	AZ		
Braun; Kevin J.	Tucson	AZ		
Dozier; David R.	Plano	TX		
Huber; Eric N.	Tucson	AZ		

US-CL-CURRENT: 709/310; 709/206, 709/315



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 13. Document ID: US 6263360 B1

L5: Entry 13 of 28

File: USPT

Jul 17, 2001

US-PAT-NO: 6263360

DOCUMENT-IDENTIFIER: US 6263360 B1

TITLE: System uses filter tree and feed handler for updating objects in a client from a server object list

DATE-ISSUED: July 17, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arnold; James F.	Helena	MT		
Shaw; Scott W.	San Francisco	CA		
Williams; Nathan W.	Helena	MT		
Seaton; D. Scott	Fremont	CA		
Woodworth; Carla P.	San Mateo	CA		
Casper; Jeffrey	Mountain View	CA		

US-CL-CURRENT: 709/203; 707/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 14. Document ID: US 6182117 B1

L5: Entry 14 of 28

File: USPT

Jan 30, 2001

US-PAT-NO: 6182117

DOCUMENT-IDENTIFIER: US 6182117 B1

TITLE: Method and apparatus for workgroup information replication

DATE-ISSUED: January 30, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Christie; David	Menlo Park	CA		
Winner; Jeffrey	Santa Clara	CA		

US-CL-CURRENT: 709/205; 709/227

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 15. Document ID: US 6176883 B1

L5: Entry 15 of 28

File: USPT

Jan 23, 2001

US-PAT-NO: 6176883

DOCUMENT-IDENTIFIER: US 6176883 B1

TITLE: System and method for generating unsupported network information indicators

DATE-ISSUED: January 23, 2001

## INVENTOR-INFORMATION:

NAME

Holloway; Malcolm Herrick MacDonald

Temoshenko; Leo

CITY

Durham NC

Raleigh NC

STATE

ZIP CODE

COUNTRY

US-CL-CURRENT: 709/223

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 16. Document ID: US 6175866 B1

L5: Entry 16 of 28

File: USPT

Jan 16, 2001

US-PAT-NO: 6175866

DOCUMENT-IDENTIFIER: US 6175866 B1

TITLE: Method and system for generating unsupported network monitoring objects

DATE-ISSUED: January 16, 2001

## INVENTOR-INFORMATION:

NAME

Holloway; Malcolm Herrick MacDonald

Temoshenko; Leo

CITY

Durham NC

Raleigh NC

STATE

ZIP CODE

COUNTRY

US-CL-CURRENT: 709/223

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 17. Document ID: US 6173292 B1

L5: Entry 17 of 28

File: USPT

Jan 9, 2001

US-PAT-NO: 6173292

DOCUMENT-IDENTIFIER: US 6173292 B1

TITLE: Data recovery in a transactional database using write-ahead logging and file caching

DATE-ISSUED: January 9, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barber; Ronald Jason	San Jose	CA		
Herbert; David Mark	San Jose	CA		
Mohan; Chandrasekaran	San Jose	CA		
Somani; Amit	San Jose	CA		
Watts; Steven John	Morgan Hill	CA		
Zaharioudakis; Markos	San Jose	CA		

US-CL-CURRENT: 707/200; 707/1, 707/201, 707/202, 707/203, 707/204, 707/205, 707/5, 707/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 18. Document ID: US 6085198 A

L5: Entry 18 of 28

File: USPT

Jul 4, 2000

US-PAT-NO: 6085198

DOCUMENT-IDENTIFIER: US 6085198 A

TITLE: Integrated three-tier application framework with automated class and table generation

DATE-ISSUED: July 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Skinner; Brian	Mountain View	CA		
Turk; Andy Kittridge	Brooklyn	NY		
McDonnell; Kevin	Union City	CA		
Yang; Chiaming	Fremont	CA		
McDonnell; Vanessa	Union City	CA		

US-CL-CURRENT: 707/103R; 707/101, 707/102, 707/203

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 19. Document ID: US 5757669 A

L5: Entry 19 of 28

File: USPT

May 26, 1998

US-PAT-NO: 5757669

DOCUMENT-IDENTIFIER: US 5757669 A

TITLE: Method and apparatus for workgroup information replication

DATE-ISSUED: May 26, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Christie; David	Menlo Park	CA		
Winner; Jeffrey	Santa Clara	CA		

US-CL-CURRENT: 709/205; 709/237

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 20. Document ID: US 5634124 A

L5: Entry 20 of 28

File: USPT

May 27, 1997

US-PAT-NO: 5634124

DOCUMENT-IDENTIFIER: US 5634124 A

TITLE: Data integration by object management

DATE-ISSUED: May 27, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Khoyi; Dana	Dracut	MA		
San Soucie; Marc	Tyngsboro	MA		
Surprenant; Carolyn E.	Dracut	MA		
Stern; Laura O.	Woburn	MA		
Pham; Ly-Huong T.	Chelmsford	MA		

US-CL-CURRENT: 707/103R; 709/315

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 21 through 28 of 28 returned.**☐ 21. Document ID: US 5421015 A

L5: Entry 21 of 28

File: USPT

May 30, 1995

US-PAT-NO: 5421015

DOCUMENT-IDENTIFIER: US 5421015 A

TITLE: Multitasking system having an application integration mechanism for linking differently typed data objects

DATE-ISSUED: May 30, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Khoyi; Dana	Dracut	MA		
San Soucie; Marc	Tyngsboro	MA		
Surprenant; Carolyn E.	Dracut	MA		
Stern; Laura O.	Woburn	MA		
Pham; Ly-Huong T.	Chelmsford	MA		

US-CL-CURRENT: [709/107](#); [709/315](#), [709/317](#), [709/330](#)[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 22. Document ID: US 5421012 A

L5: Entry 22 of 28

File: USPT

May 30, 1995

US-PAT-NO: 5421012

DOCUMENT-IDENTIFIER: US 5421012 A

TITLE: Multitasking computer system for integrating the operation of different application programs which manipulate data objects of different types

DATE-ISSUED: May 30, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Khoyi; Dana	Dracut	MA		
Soucie; Marc S.	Tyngsboro	MA		
Surppenant; Carolyn E.	Dracut	MA		
Stern; Laura O.	Woburn	MA		
Pham; Ly-Huong T.	Chelmsford	MA		

US-CL-CURRENT: 709/107; 345/700

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 23. Document ID: US 5369778 A

L5: Entry 23 of 28

File: USPT

Nov 29, 1994

US-PAT-NO: 5369778

DOCUMENT-IDENTIFIER: US 5369778 A

TITLE: Data processor that customizes program behavior by using a resource retrieval capability

DATE-ISSUED: November 29, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
San Soucie; Marc	Tyngsboro	MA		
Surprenant; Carolyn E.	Dracut	MA		
Fitzgerald; Thomas	Lowell	MA		
Walker; Susan	Arlington	MA		

US-CL-CURRENT: 707/103R; 703/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 24. Document ID: US 5303379 A

L5: Entry 24 of 28

File: USPT

Apr 12, 1994

US-PAT-NO: 5303379

DOCUMENT-IDENTIFIER: US 5303379 A

TITLE: Link mechanism for linking data between objects and for performing operations on the linked data in an object based system

DATE-ISSUED: April 12, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Khoyi; Dana	Dracut	MA		
Soucie; Marc S.	Tyngsboro	MA		
Surprenant; Carolyn E.	Dracut	MA		
Stern; Laura O.	Woburn	MA		
Pham; Ly-Huong T.	Chelmsford	MA		

US-CL-CURRENT: 717/166, 709/100, 709/315, 717/162

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw. Desc	Image
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☐ 25. Document ID: US 5261080 A

L5: Entry 25 of 28

File: USPT

Nov 9, 1993

US-PAT-NO: 5261080

DOCUMENT-IDENTIFIER: US 5261080 A

TITLE: Matchmaker for assisting and executing the providing and conversion of data between objects in a data processing system storing data in typed objects having different data formats

DATE-ISSUED: November 9, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Khoyi; Dana	Dracut	MA		
Soucie; Marc S.	Tyngsboro	MA		
Surprenant; Carolyn E.	Dracut	MA		
Stern; Laura O.	Woburn	MA		
Pham; Ly-Huong T.	Chelmsford	MA		

US-CL-CURRENT: 710/65

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw. Desc	Image
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☐ 26. Document ID: US 5226161 A

L5: Entry 26 of 28

File: USPT

Jul 6, 1993

US-PAT-NO: 5226161

DOCUMENT-IDENTIFIER: US 5226161 A

TITLE: Integration of data between typed data structures by mutual direct invocation between data managers corresponding to data types

DATE-ISSUED: July 6, 1993



## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Khoyi; Dana	Dracut	MA		
Soucie; Marc S.	Tyngsboro	MA		
Surpenant; Carolyn E.	Dracut	MA		
Stern; Laura O.	Woburn	MA		
Pham; Ly-Houng T.	Chelmsford	MA		

US-CL-CURRENT: 709/316

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 27. Document ID: US 5206951 A

L5: Entry 27 of 28

File: USPT

Apr 27, 1993

US-PAT-NO: 5206951

DOCUMENT-IDENTIFIER: US 5206951 A

TITLE: Integration of data between typed objects by mutual, direct invocation between object managers corresponding to object types

DATE-ISSUED: April 27, 1993

## INVENTOR-INFORMATION:

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US-CL-CURRENT: 709/315; 707/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Nov 13, 2002

DERWENT-ACC-NO: 1999-446775

DERWENT-WEEK: 200282

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TITLE: Updating a set of data objects within a data access system

INVENTOR: BOUCHER, G A; CARROLL, T A ; HASBANI, J E ; KARBOWSKI, K ; RAUH, E ;  
RAUH, E M

PRIORITY-DATA: 1997US-0942264 (October 1, 1997)

PATENT-FAMILY:

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GB 2333866 B	November 13, 2002		000	G06F009/44
GB 2333866 A	August 4, 1999		043	G06F009/44
CA 2249077 A1	March 30, 1999	E	000	H04L012/16

INT-CL (IPC): G06 F 9/44; G06 F 9/46; G06 F 17/30; H04 L 12/16

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